# MATERIAL SAFETY DATA SHEET

DATE PREPARED: 07/31/2001

MSDS No: 7119

ORTHO® Bug-B-Gon® Multi-Purpose Insect Killer Ready-To-Use Granules

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Bug-B-Gon® Multi-Purpose Insect Killer Ready-To-Use

Granules

PRODUCT DESCRIPTION: Insecticide

#### **MANUFACTURER**

24 HR. EMERGENCY TELEPHONE NUMBERS

The ORTHO Group P.O. Box 1749 Columbus, OH 43216

Emergency Phone: 1-800-225-

2883

EPA REG. NO.: 28293-233-239 PN: 7066

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical NameWt.%CAS#Carbaryl6.363-25-2Other Ingredients93.7

# 3. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

#### **IMMEDIATE CONCERNS:**

- Harmful if swallowed or absorbed though the skin.
- Avoid breathing dust.
- Do not take internally.
- Avoid contact with eyes, skin, or clothing.
- Do not eat, drink, or use tobacco while working with this product.
- KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS.

#### POTENTIAL HEALTH EFFECTS

EYES: Eye contact may cause discomfort, tearing, swelling, redness, and blurred vision. See Toxicology Information, section 11.

SKIN: This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

INGESTION: Ingestion may cause irritation of the digestive tract which may include nausea, vomiting, and diarrhea. If swallowed, this substance is considered slightly toxic to internal organs. See Toxicological Information, section 11.

INHALATION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled.

**ACUTE EFFECTS:** Overexposure to this material may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. The effects of overexposure (salivation, lacrimation, urination, and diarrhea) are spontaneous and are rapidly reversible.

**MEDICAL CONDITIONS AGGRAVATED:** Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate asthma, emphysema, or bronchitis.

ROUTES OF ENTRY: Ingestion, skin, and inhalation.

**TARGET ORGANS:** Carbaryl is a inhibitor of the cholinesterase enzyme, found in nervous tissue, red blood cells, and plasma.

**WARNING CAUTION LABELS: CAUTION** 

# 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** If on skin, wash with soap and water.

**INGESTION:** If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** Carbaryl is a carbamate insecticide which is a cholinesterase inhibitor. Atropine is antidotal. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended.

**ADDITIONAL INFORMATION:** Contact a physician immediately in all cases of suspected poisoning. Transport patient to a physician or hospital immediately and SHOW A COPY OF THE LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

**COMMENTS:** See product label for specific First Aid Measures. The above measures are the most conservative and would apply in the event a product label is not immediately available.

# 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Nonflammable

**EXTINGUISHING MEDIA:** Use appropriate agent for surrounding fire product is not combustible.

**HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition products may be hazardous. These may include oxides of sulfur, nitrogen, and carbon, and methyl isocyanate.

**FIRE FIGHTING PROCEDURES:** Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

**FIRE FIGHTING EQUIPMENT:** Wear full protective clothing and NIOSH/MSHA self-contained air supply with full facepiece operated in pressure demand mode.

# 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep up material and use according to label instructions or dispose of in the trash.

**LARGE SPILL:** Clean up spills immediately, observing precautions in Exposure Controls/ Personal Protection section. Vacuum with machines equipped with high efficiency filters or sweep up material and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, cat litter, clay, rags or other absorbent and place in a disposable container. Dispose of in accordance with instructions in Section 13. "DISPOSAL".

**GENERAL PROCEDURES:** Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION".

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Read and observe all precautions on product label. Store unused product in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100 degrees F.

**HANDLING:** See label. Wear household latex or rubber gloves when handling. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams, or ponds. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

#### PERSONAL PROTECTION

EYES AND FACE: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

For application of product in accordance with label instructions, no special eye protection is needed.

SKIN: Wear appropriate protective clothing to prevent skin contact. Rubber gloves, coveralls, apron, boots, are recommended as necessary to prevent skin contact under workplace operations. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

For application of product in accordance with label instructions, household latex or rubber gloves are recommended.

RESPIRATORY: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded (see below). If used, full facepiece replaces need for chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134.

For application of product in accordance with label instructions, no special respiratory protection is required.

**COMMENTS:** Nuisance Dust (OSHA) - 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction). Particulates Not Otherwise Classified (PNOC) ACGIH- 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable).

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

#### **EXPOSURE LIMITS**

Chemical NameOSHA PELACGIH STELCarbaryl5 mg/m35 mg/m3None

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Granular

**ODOR:** Slight odor.

**APPEARANCE:** Granular solid

COLOR: Brown.

**pH:** 4.4 (5g/100 ml water)

**VAPOR PRESSURE:** <0.000040 mm Hg (carbaryl)

**MELTING POINT:** 140 C (288 F) carbaryl

**SOLUBILITY IN WATER:** ~45 ppm (carbaryl)

**DENSITY:** 45 lbs/cu. ft.

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION: NO** 

**CONDITIONS TO AVOID:** Avoid contact with acids and bases.

**HAZARDOUS DECOMPOSITION:** Thermal decomposition products may include oxides of carbon and nitrogen and trace amounts of methyl isocyanate.

## 11. TOXICOLOGICAL INFORMATION

**SKIN EFFECTS:** Mild, transient irritation.

#### **ACUTE**

EYES: Non-irritating.

DERMAL LD<sub>50</sub>: (rabbits) >2,000 mg/kg body weight.

ORAL LD<sub>so</sub>: (rats) 3,240 mg/kg body weight.

INHALATION LC<sub>50</sub>: No product toxicology data available.

## **CARCINOGENICITY:**

**IARC:** The active ingredient is considered a Group 3 carcinogen by the International Agency for Research on Cancer.

**NTP:** There is no rating for the active ingredient(s) by the National Toxicology Program.

**OSHA:** The active ingredient is not considered to be a carcinogen by the Occupational Safety and Health Administration.

**CARCINOGENICITY COMMENTS:** Carbaryl has been associated with the development of tumors in high dose groups in both rats and mice in lifetime feeding studies. In the rat and mouse chronic studies, the NOEL (no observable effect level) for oncogenic findings was 7500 and 1000 ppm, respectively.

**NEUROTOXICITY:** Carbaryl is not considered to be a neurotoxin in the sense of

producing direct histopathological changes to nerve tissue. Delayed and irreversible neurotoxic effects have not been observed in animal toxicology investigations.

**TERATOGENICITY:** Carbaryl is not considered to be a teratogen or a chemical that causes birth defects. Certain developmental changes have been observed in some species when the dose of carbaryl administered to the mother caused signs of toxicity. Results from monkey teratology studies have not demonstrated birth defects even at maternally toxic dose levels.

**MUTAGENICITY:** Carbaryl has demonstrated positive findings when tested in some in vitro systems, however results from in vivo mammalian investigations have been negative.

**COMMENTS:** The acute toxicity information provided by Unicorn Laboratories (EPA Reg. No. 28293-233).

# 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

**ECOTOXICOLOGICAL INFORMATION:** This product is extremely toxic to aquatic and estuarine invertebrates and toxic to birds and other wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

# 13. DISPOSAL CONSIDERATIONS

**FOR LARGE SPILLS:** Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

**PRODUCT DISPOSAL:** Carefully follow all label directions and precautions. If necessary to dispose of partially filled container, then securely wrap it in several layers of newspaper and discard in trash.

**EMPTY CONTAINER:** Do not reuse empty container. Discard container in trash.

# 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

### PROPER SHIPPING NAME: Not DOT regulated

**U.S. SURFACE FREIGHT CLASS:** Insecticides, Fungicides, Insect or animal repellents or vermin exterminators, NOI, Other than poison

**SPECIAL SHIPPING NOTES:** The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

# 15. REGULATORY INFORMATION

**UNITED STATES** 

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE:	CHRONIC:	FIRE:	REACTIVITY:	PRESSURE GENERATING:
YES	YES	NO	NO	NO

**313 REPORTABLE INGREDIENTS:** Sevin (CAS No. 63-25-2)

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA RQ:** 100 lbs. of Carbaryl.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

STATE REGULATIONS

PROPOSITION 65 STATEMENT: No ingredients on list.

# 16. OTHER INFORMATION

NFPA CODES

FIRE: 0 HEALTH: 3 REACTIVITY: 0

### **APPROVAL DATE: 08/06/2001**

#### **REVISION SUMMARY** New MSDS

**COMMENTS:** Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.